



CHICAGO AREA TIMEX USERS GROUP

NITE-TIMES NEWS

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JANUARY-FEBRUARY 1989

NITE-TIMES INFO

The Nite-Times News is the newsletter of the Chicago Area Timex Users Group. For an annual fee of \$10.00 you can become a CATUG member with full membership privileges. Send your dues to CATUG Treasurer, Al Feng at 15 Wake Robin Ct, Woodridge, Illinois 60517. The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting users groups. If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter. If you have any suggestions or would like to submit an article, please mail it to:

The Chicago Area Timex Users Group
Nite-Times News Editor
1885A Yorktown Avenue
Great Lakes, Illinois 60088.

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JANUARY MEETING NOTES

The January meeting of the CATUG was on Saturday, the 14th with thirteen members in attendance. It was one of the few snowy days this winter. So the turn out was surprisingly good. One QL was brought to the meeting and the entire newsletter exchange library was available also. Bob Swoger brought clean copies of the November and December Nite-Times as well as three issues of the Motorola Computer Club's Data Bus which he produces using Pixel Print and his 2068.

Al Feng reported that the CATUG treasury had purchased a subscription to Up Date Magazine and that our User Group dues had been submitted to the SNUG.

Use of the CATUG Library was discussed. It will have a card system set up and newsletters from our exchange program will be available for check out at CATUG meetings. There are also many back issues of various British that have been donated to the Library. Do to the difficulties of moving these around, they will be brought to the meetings upon request only.

Lastly, it was also agreed upon by all attending members that the Nite-Times News would become a bi-monthly publication.

QL COLOR COMPOSITE MONITOR JACK

By Al Boehm

Reprinted from BoSTUG Newsletter

The QL computer does not have a jack for composite color monitors. However, the composite color signal is easy to get at inside the QL. (See Figure 1)

Unscrew the eight screws on the bottom of the QL. Be carefull to leave the two screws that hold the microdrives (and are located right under them) alone.

(continued on page 2)

QL COLOR COMPOSITE MONITOR JACK

Continued from page 1

Carefully swing back the top of the case and solidly prop the keyboard in position. It is not necessary to disconnect the wires between the top and the bottom of the case, but be carefull not to put any strain on the wires or the membrane tail.

Use a coax cable (audio coax is just fine) to carry the signal to the monitor. Solder the coax ground to the braided ground wire on the top of the UM1622. Solder the coax signal wire to the signal lead of the UM1622.

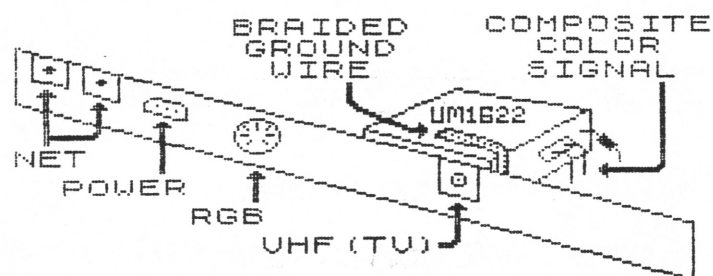


FIG 1 VIEW FROM BACK OF QL

In order to disconnect the cable, I installed an RCA phono jack on the back of the QL right above the TV channel selector switch. (Editor's note: Remember that on an RCA phono jack, the center pin carries the composite color signal and the outer skin connects to the ground or return signal.)

This composite color signal has had good results on several different monitors. On some of them, not all all of the picture is displayed. However, in all cases more is displayed than with a TV and the resolution is much better.

I use a composite color monitor with Quill in 80 column mode with no trouble reading and just a little bit of columns 1 and 80 displayed off the screen.

SIMPLE MODEM UPGRADE

By Ken Abranson
Reprinted from ZX-Appeal

Here are two simple TS-2050 modem modifications you might wish to consider if you know which end of a soldering iron to hold.

The first cicuit is a simple LED (light emitting diode)) "LINE FREE" indicator which lights up when nobody is using the telephone line. If the line is in use, the LED will remain dark and you must wait untill the "LINE FREE" light comes on before you do your auto-dialing. This handy little LED eliminates

interrupting somebody's telephone conversation to find ou whether they are finished talking or not. It also allows you to watch the dialing process (the LED pulses on and off).

Please note that after you install the below circuit, if the LED does not light, it may not be properly biased and you should reverse it's leads to correct it.

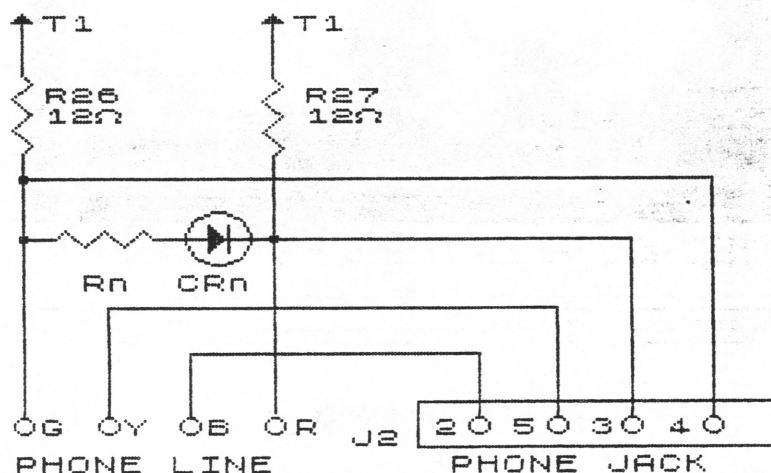


FIGURE 1 LINE FREE LED

The second circuit is a simple voltage regulator that isolates the computer 9V supply from any stray modem signals that may find their way back to the 9V RAM supply circuit. It also regulates the 9V supply to the LM1548 modem amplifier chip, thus giving increased stability to it's output levels.

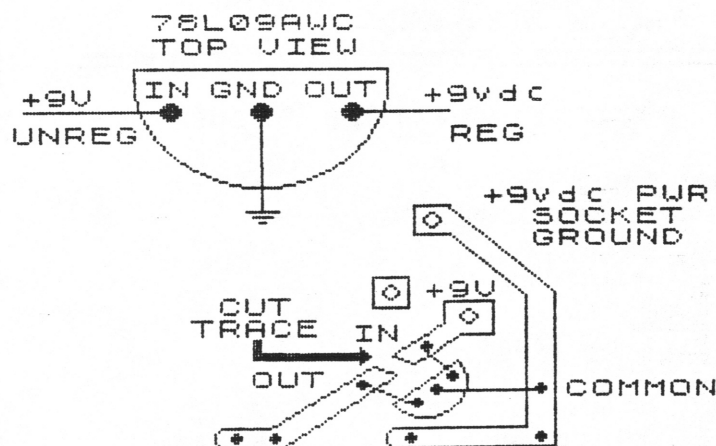


FIGURE 2 9Vdc REGULATOR

(continued on page 3)

SIMPLE MODEM UPGRADE

Continued from page 2

This means that you can RELIABLY use the computer 9V power supply and get rid of that extra 9V modem power pack. Just use a stiff wire to fish an extra wire under the shielded covering of the modem ribbon cable, and connect this new wire to the +9V contact on the modem edge connector (see TS-1000 user manual page 124 or ZX-81 manual page 167 for pinout diagram of the edge connector). You can even desolder the modem 9V power supply jack and use it for other projects if you wish.

Your new 9V line should connect to the POSITIVE trace connection of the 9V power jack.

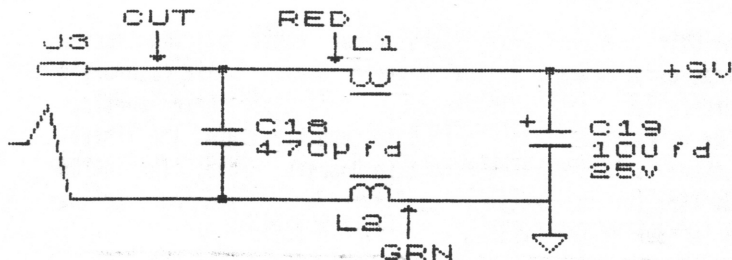


FIGURE 3
TS-2050 9Vdc CIRCUIT

The 78L09AUC mounts on the component side of the modem board through three holes drilled through the traces shown. First, cut the trace that goes from the +9V connection to L1 and C18 (modem schematic diagram). Scrape the remaining trace stubs well before soldering, because they have been coated with an insulating coating. If you don't have the #66 drill bit, you needn't drill the holes. Just mount the 78L09AUC directly on the trace side of the board (allowing for cabinet clearance) and solder it directly to the surface of the traces.

NITE-TIMES CLASSIFIEDS

The Nite-Times Classified Ads are a service provided to all of our readers. Please submit your ads prior to the 15th of each month. They may be mailed to the Nite-Times News Editor, 1885-A Y
own Avenue, Great Lakes, IL 60088.

***** FULL COLOR SCREEN DUMPS for the TS-2068! *****

Now, with an OKIMATE 20 Printer, one of two possible Plug 'n Print interface configurations, and "COLOR COPY" software, a TS-2068 user can easily have screen\$ copied in FULL COLOR and black and white. The two I/F hardware configurations are:

- (1) An IBM paralell Plug 'n Print cartridge and an AERCO or OLIGER parallel printer I/F.
- (2) A COMMODORE 64/128 Plug n' Print cartridge and my COMMODORE serial port emulator I/F. (Note: This same I/F will interface a COMMODORE Printer/Plotter to a 2068 - write for more info and a sample plot.)

For more information on the I/F requirements and details on the software available for the OKIMATE 20, send a LSASE to:

John McMichael
1710 Palmer Drive
Laramie, WY 82070

* * * * *
FOR SALE

\$40.00 Large assortment of Timex & Sinclair software and books

\$50.00 TS2050 Modem in original case with several manuals and software.

For more information, call Gary Lessenberry at (312) 473-9415.

* * * * *
FOR SALE

ZENITH DATA SYSTEMS ZT-series Remote Terminal with built-in 300 baud modem, cables and power supply for 225.00 or best offer.

For more information, contact:

AL FENG
15 Wake Robin Court
Woodridge, IL 60517

* * * * *
FOR SALE

\$125.00 QL Printer complete with 3 ribbons (\$5 S&H)

\$35.00 TS-2050 Modem with case, docs and software (\$3 S&H)

\$35.00 Mathewson Keyboard Interface with 3' cable (\$3 S&H)

\$30.00 66 Key Keyboard, matrixed for TS-2068 (\$3 S&H)

\$25.00 TTL Monitor with docs, no case or pwr supply (\$5 S&H)

\$35.00 8K Hunter NVH for TS-1000 (\$3 S&H)

\$30.00 Two Tandon DSDD Disk Drives, need work (\$5 S&H)

\$25.00 TS-2020 Timex Tape Recorder (\$3 S&H)

\$30.00 Bell Systems Answering Machine (\$3 S&H)

For more information contact:

TOM PHILLIPS
2942 Christopher Road
Jacksonville, Florida 32217
tel: 904/739-2580

TELECOMMUNICATIONS CORNER

By Gary Lessenberry

Timexs SIG and BBS's are still popping up from place to place. The following systems were checked out during the past month and have been added to our BBS Directory.

The ADAMCastle BBS at (502) 968-5439 is operated by Shawn Merrick of the Sinclair Louisville User Group (SLUG) in Kentucky. It's operates on weekends only beginning at midnight (EST) on Friday night and operating for the next 48 hours. The logon parameters are 8 bits, no parity and stop bit. It operates at both 300 and 1200 baud. On the ADAMCastle you will find a Timex Sinclair message base as well as a TS file transfer area.

The CapitalFest BBS at (301) 588-0579 is sponsored by the CATS User Group (SLUG) in Washington DC. It operates around the clock, seven days a week. The logon parameters are 8 bits, no parity and stop bit. It operates 300 baud only, using the Casboard BBS software. There is no file transfer area and only one message base. This system is fairly new and it didn't have much information onboard. However, I beleive that as May draws nearer and the Fest frenzy grows, so will the activty on this system.

I recently received a report that Mterm II can be used at 1200 baud using a Z-SI/O RS-232 interface. The following pokes are required to set up your parameters:

300 baud, 8/1/N POKE 61700,79
 300 baud, 7/1/E POKE 61700,123
 1200 baud, 8/1/N POKE 61700,78
 1200 baud, 7/1/E POKE 61700,122

I recently received some news about dramatic changes in the services provided by PC Pursuit. PC Pursuit, for those unfamiliar with it, is a telecommunications specific long distance service from Telenet Communications Corporation (owned by US Sprint). The service is now available for an initial fee of \$30.00 plus a \$30.00 monthly fee. For your fee, you can access 34 cities for thirty hours during the month. Any service beyond the thirty hours will be billed at \$4.50 per hour. You will be able to telecommute at 300, 1200 and 2400 to any of the PC Pursuit cities. They've also increased the outdial capacity in each city to support more callers. For more information about PC Pursuit, call 1-800-835-3638.

In an attempt to get more information from England without paying outrageous dollars for kiddies program magazines, I tried some international Fido-mail this past month. I composed a generic letter which I requested they post on their systems. It included my home address as well as my Fido Matrix Address. Hopefully, I'll be able to report next month that I've gain a few new Sinclair acquaintences over seas. I got the matrix addresses from my local FIDO BBS. They were part of a file called NODELIST.A58 which is an archived file. I had to use an MSDOS machine to download it (244K) and unarchive it. I have a few of the matrix addresses listed below. If you want to try

it, I suggest that you initially send your mail to the sysop o the system. If you don't know of a local FIDO BBS that you can use to send it from, call me at (312) 473-9415 and I will look one up for you from the Modelist.

Matrix Address	BBS Name	City	Sysop Name
2:251/12	Lamplight BBS	Portsmouth U.K.	John Lambon
2:252/3	Jersey Opus	Jersey U.K.	Hugh Ashborn
2:253/152	Eddies Bbs	Newbury U.K.	Eddie Seymour
2:254/162	The London BB	London U.K.	Daniel Wilder

UPCOMING C.A.T.U.G. MEETINGS

The Chicago Area Timex Users Group meets on the second saturday of each month in the Downers Grove Public Library's Conference Room, from 12:00 to 5:00. Our next three meetings will be on February 11th, March 11th, and April 8th. The library is located at 1050 Curtiss Street in Downers Grove. The CATUG coordinator for our meetings is Steve Cooper and he can be contacted during the evening at (312) 968-3553.

TIMEX TIDBITS

The Hacker Newsletter reported that according to an English Magazine, there is an IBM emulator developed that will be hitting the market for the QL. It also repeated a report that there is a German company that is trying to secure the right from Amstrad to produce QL's. The German model would probably feature internal disk drives vice the ever popular microdrives.

Rod Gowen reports in The Plotter newsletter that Larken Electronics is in the final testing of a new 1200 baud telecommunications software package for the TS-2068. This package will operate at either 300 or 1200 baud via one of the currently available RS-232 Interfaces (such as the Z-SI/O from Ed Grey Enterprises). It will operate as either a Bulletin Board System (BBS) or or a remote terminal, and allow for direct downloads to disk. The planned price for this gem is \$25!

The Plotter has also reported that Knighted Computers have pulled out of the Timex community and sold their remaining Timex/Sinclair inventory to WMJ Data Systems. Knighted has provided a lot of excellent support to the Timex community over the years and we wish them the best of luck in their current and future pursuits.

The CATUG has received new catalogs from MEI/Micro Center and Sharps which features an IBM emulator and 20 Meg Hard Drive for the QL.

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TIMEX TIDBITS

Continued from page 4

CATS Newsletter reports that EZ Key and Foote Software have dropped from the ranks of the Sinclair dealers and sold their remaining stock to RMG.

Are you interested in the Z88 from Cambridge Computers? If so, let the editor know. Cambridge of North America located in suburban Northbrook have loaner systems available that we could demonstrate at a CATUG meeting if there is an expressed interest.

We all know that Quantum Computing went under a while back and Frank Tomei took a few hard earned Timexers dollars with him. Frank has surfaced along with debts of over \$61,000.00! If you have a claim against him and Quantum Computing, you should contact Jonathan Kohn, 1180 Raymond Blvd, Newark, NJ 07102-4107.

The word from the LIST User Group is that Zebra Systems is phasing out their existing stock of Timex-Sinclair Products. Zebra has been around for many years and in my opinion, one of the few retailers that help keep the Timex computers alive after the shock of '84! Their absence from the market will be felt throughout our community.

CAPITALFEST NEWS

The upcoming CapitalFest plans appear to be in full swing now. The CATS User Group has set up a TS-2068 based CapitalFest BBS at (301) 588-0579. The following are the current plans for the Fest.

Location:

The Fest will be held at the Howard Johnson Inn, Route 450 and the Beltway (eastside), New Carrollton, MD. Howard Johnson's is conveniently located for easy access by road, subway (New Carrollton, MD stop), Amtrak from New York and Boston to the north and all points south, and by air into Washington National and Baltimore Washington International.

The projected program is as follows:

Friday May 5th

Program Registration
Hotel Registration
Limited-seating Banquet

Saturday May 6th

8 AM - Set Up Tables
9 AM - Swap Shop Intake
9 AM to 5 PM - Open Floor
10 AM to 5 PM - Speakers
10 AM to 8 PM - Videos
7 PM to 10 PM - Hospitality Suite

Sunday May 7th

9 AM to 3 PM - Open Floor
10 AM to Noon - Speakers
10 AM to Noon - Videos of Saturday's Presentations
3 PM to 5 PM - Wrap-up/Clean-up

The Projected costs are:

\$62.00 - Hotel room with one free Fest admission included.
\$16.50 - The Friday evening banquet.
\$25.00 - Exhibition tables at the Fest.
\$ 7.00 - Advance Fest admission.
\$10.00 - Fest admission at the door.
\$ 5.00 - Metro Pass (Four Persons, one day).

For more information write to:

C.A.T.S. CAPITALFEST
P.O. Box 24
Garrett Park, Maryland 20896-0024
telephone: (301) 439-8756

TS-2068 CHRISTMAS LABELS

By Bob Swoger

This program will print various Christmas-time address labels using a Tasman Printer Interface on your TS-2068 and a Legend-80 Printer.

10 REM CHRISTMAS LABEL GENERATOR

20 REM WRITTEN BY GREGORY A. DERTZ & ROBERT E. SWOGER
NOVEMBER 23, 1985

40 LET MP=4

50 DIM A\$(4,36): DIM S(12): DIM K(MP,4,40): DIM X(4)

60 REM THIS IS THE DATA FOR THE UPPER AND LOWER SCROLL

70 FOR I=1 TO 12

80 READ S(I)

90 NEXT I

100 DATA 64,32,48,24,28,28,28,28,24,48,32,64

110 LET LC=1

120 CLS : PRINT " WELCOME TO THE CHRISTMAS"

130 PRINT " RETURN ADDRESS LABEL PROGRAM.",,,

140 PRINT "I WILL FIRST ASK FOR YOUR NAME AND ADDRESS (4 LINES MAX.), THEN "

160 PRINT " PRINT OUT THE NUMBER OF RETURN "

170 PRINT "ADDRESS LABELS REQUESTED.",,,

180 PRINT "THE FIRST LINE OF THE LABEL WILL"

190 PRINT "BE PRINTED EMPHASIZED, THE"

200 PRINT "REMAINING THREE LINES WILL BE"

210 PRINT "PRINTED COMPRESSED.",,,

220 PRINT " TO USE ME YOU MUST HAVE LABELS"

230 PRINT "THAT ARE 1 TO THE INCH AND ARE"

240 PRINT "ONE UP ON THE SHEET."

(continued on page 6)

TS-2068 CHRISTMAS LABELS

Continued from page 5

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245 REM WHILE THE USER IS READ ING THE ABOVE STUFF, START
    READING THE DATA FOR THE PICTURES.
250 FOR I=1 TO MP
260 FOR J=1 TO 4
270 FOR X=1 TO 40
280 READ K(I,J,X)
290 NEXT X: NEXT J: NEXT I
300 GO SUB 900
310 CLS : PRINT "EXAMPLE:",,,,,"MERRY CHRISTMAS",,"John, Mary,
    Jim, & Spot",,"1234 Any Street": PRINT "This Town, IL
    60000",,,
320 REM NOW ASK FOR THE RETURN ADDRESS INFO
330 FOR I=1 TO 4
340 PRINT " LINE ";I;"? ";: INPUT G$
350 IF G$="" THEN GO TO 365
360 LET X(I)=LEN G$: LET A$(I)=G$
365 PRINT A$(I,1 TO )
370 NEXT I
375 PAUSE 150
380 CLS : REM NOW ECHO THE INPUT FOR CONFIRMATION.
390 FOR I=1 TO 4
400 PRINT A$(I,1 TO )
410 NEXT I
420 PRINT : RANDOMIZE USR 64719
430 INPUT "CORRECT? ";T$
440 IF T$="y" OR T$="Y" OR T$="YES" THEN GO TO 470
450 IF T$="n" OR T$="N" OR T$="NO" THEN GO TO 330
460 GO TO 390
465 REM THIS SECTION WILL NOW CALCULATE THE LENGTH OF THE
    SCROLL BASED ON THE LENGTH OF THE LONGEST INPUT TED LINE .
470 LET H=X(1)
480 FOR I=2 TO 4
490 IF (15/27)*X(I))>H THEN LET H=INT ((15/27)*X(I)))
500 NEXT I
510 LET H=5+(INT ((2/3)*H))
520 IF H>22 THEN LET H=22: REM CHECK FOR OVERFLOW
525 REM NOW PRINT THE LABELS
530 INPUT "NUMBER OF LABELS TO BE PRINTED? ";N
540 PRINT "INSERT LABELS AND LINE UP THE"
550 PRINT "FIRST LABEL.",,,,
580 REM NOW CLEAR THE PRINT ER AND SET LINE SPACING TO 8/72
    INCH SO THAT THERE WILL NOT BE SPACES BETWEEN THE LINE S
    OF THE PICTURE
581 LPRINT CHR$ 27;CHR$ 27;"e";CHR$ 27;CHR$ 27;"A";CHR$ 27;
    CHR$ (8);
585 REM NOW THEN PRINT ALL OF THE LABELS
590 FOR Z=1 TO N
600 PRINT "LABEL NO. ";Z;
610 GO SUB 840: REM PRINT THE UPPER SCROLL
620 FOR L=1 TO 4

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630 LPRINT CHR$ 27;CHR$ 27;"L";CHR$ (80);CHR$ 27;CHR$ (0);
640 FOR C=1 TO 40: REM PRINT PICTURE LINE
660 LPRINT CHR$ 27;CHR$ (K(LC,L,C));CHR$ 27;CHR$ (K(LC,L,C));
670 NEXT C
680 IF L=1 THEN LPRINT CHR$ 27;CHR$ 27;"E";: REM PRINT THE
    FIRST LINE EMPHASISED
690 IF L=2 THEN LPRINT CHR$ 27;CHR$ 27;"F";CHR$ 27;CHR$ 15;
    CHR$ 27;CHR$ (27);"6";: REM PRINT ALL OTHER LINE S
    COMPRESSED
700 LPRINT A$(L)
710 NEXT L
720 GO SUB 840: REM NOW PRINT THE LOWER SCROLL
725 LET LC=LC+1: REM INCREMENT THE PICTURE
726 IF LC=MP+1 THEN LET LC=1
730 LPRINT : LPRINT : LPRINT
740 LPRINT CHR$ 27;CHR$ 27;"H";: RESTORE : PRINT "PRINTED":
    NEXT Z
790 LPRINT CHR$ 27;CHR$ 27;"e";: REM NOW DONE, SO RESET THE
    PRINTER
800 INPUT "WOULD YOU LIKE MORE LABELS? ";T$
810 IF T$="y" OR T$="Y" OR T$="YES" THEN GO TO 380
820 IF T$="n" OR T$="N" OR T$="NO" THEN PRINT "O.K. THANK YOU
    FOR USING ME.": STOP
830 GO TO 800
840 LPRINT CHR$ 27;CHR$ 27;"H";CHR$ 27;CHR$ 27;"K";CHR$ 27;
    CHR$ (12*H);CHR$ 27;CHR$ (0);
850 FOR B=1 TO H
860 FOR I=1 TO 12
870 LPRINT CHR$ 27;CHR$ (S(I));
880 NEXT I: NEXT B: LPRINT : RETURN
900 PRINT AT 21,4;"HIT <ENTER> TO CONTINUE "
910 LET T$=INKEY$: IF T$="" THEN GO TO 910
920 RETURN
1000 REM TREE ARRAY LC=1
1010 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,7,63,255
1020 DATA 255,63,7,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
1030 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,3,7,79,223,255,255,255
1040 DATA 255,255,255,223,79,7,3,1,0,0,0,0,0,0,0,0,0,0,0,0
1050 DATA 0,0,0,0,0,0,0,0,0,1,35,239,255,255,255,255,
    255,255,255,255
1060 DATA 255,255,255,255,255,255,255,255,239,35,1,0,0,0,
    0,0,0,0,0,0
1070 DATA 0,0,0,0,0,16,48,112,240,240,240,240,240,240,240,
    240,255,255,255
1080 DATA 255,255,255,240,240,240,240,240,240,240,240,112,
    48,16,0,0,0,0,0
1090 REM BELLS ARRAY LC=2
1100 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,1,3,3,7,3,0,7,7
1110 DATA 15,15,31,31,15,15,7,7,0,0,0,0,0,0,0,0,0,0,0,0
1120 DATA 0,2,3,3,3,3,7,15,31,63,127,255,255,255,255,240,7,
    255,255,255

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(continued on page 7)

TS-2068 CHRISTMAS LABELS

Continued from page 6

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1130 DATA 255,255,255,255,255,255,255,255,7,0,0,0,0,0,
0,0,0,0,0
1140 DATA 0,0,0,152,252,252,248,240,248,252,254,255,255,254,
241,15,255,255,255,255
1150 DATA 255,255,255,255,255,255,255,255,255,15,1,0,0,
0,0,0,0,0,0
1160 DATA 0,0,0,0,0,0,0,0,0,0,0,64,64,192,192,192,192,
192,192,192
1170 DATA 192,192,192,192,192,192,192,216,252,252,216,192,192,
64,64,0,0,0,0,0
1180 REM STOCKING ARRAY LC=3
1190 DATA 0,7,2,1,7,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
1200 DATA 0,0,0,0,0,0,0,0,1,1,29,51,62,12,0,0,0,0,0,0,0
1210 DATA 0,128,0,0,128,0,60,36,36,60,0,1,1,1,1,0,0,0,0,0
1220 DATA 0,0,0,48,44,67,135,135,15,31,31,159,127,15,3,
0,0,0,0,0
1230 DATA 0,0,0,0,0,0,0,0,0,0,0,240,80,16,16,0,15,1,1,1
1240 DATA 0,0,0,0,0,129,227,255,255,255,255,255,255,255,255,
255,63,12,0,0
1250 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
1260 DATA 0,24,60,126,254,254,254,252,252,248,240,224,192,0,0,
0,0,0,0,0
1270 REM CANDLE ARRAY LC=4
1280 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,0,7,24,32,64,128,128
1290 DATA 131,132,136,132,131,128,128,64,32,24,7,0,0,0,0,0,0,
0,0,0,0
1300 DATA 0,1,6,8,16,32,96,96,32,16,8,6,1,0,192,32,16,0,0,0
1310 DATA 207,47,31,47,207,0,0,0,16,32,192,0,0,0,0,0,0,0,0,0
1320 DATA 0,192,48,12,6,2,97,33,33,33,33,65,1,1,1,1,1,1,1,1
1330 DATA 255,255,255,255,255,1,1,1,1,1,1,1,1,1,1,1,1,1,0,0
1340 DATA 0,0,0,0,0,0,0,0,0,0,0,248,248,248,248,248,248,248,
248,248
1350 DATA 248,248,248,248,248,248,248,248,248,248,240,224,192,
128,0,0,0,0,0,0
9996 CLEAR
9997 SAVE "XMSLBS" LINE 1
9998 VERIFY "XMSLBS"

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CATUG LIBRARY NOTES

By Gary Lessenberry

The Chicago Area Timex Users Group Library has received the following listed articles from other user groups via our newsletter exchange. The newsletters with these articles will be available for check out at the monthly CATUG meetings.

BoSTUG Timex/Sinclair Newsletter (Nov/Dec 1988)

Radio Amateur Radio Users Group

modem Tips

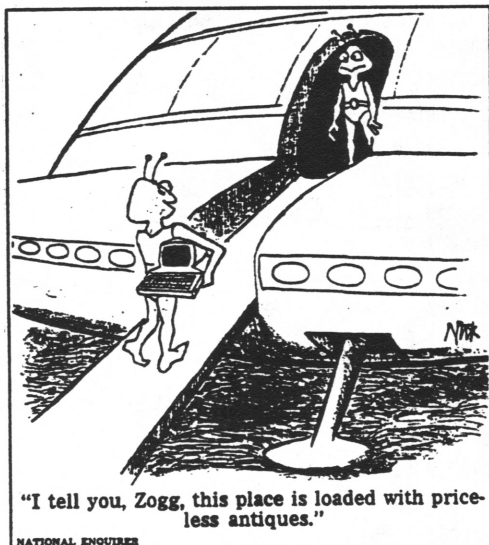
QL Composite Color Monitor Jack

CATS Newsletter (Jan 1989)
 PRLIN (TS-1000 Program)
 Larken Auto-save Circuit (2068 Proj)
 Monitor Retrace Lines (2068 Proj)
 CRAGIST Newsletter (Jan 1989)
 Battery Backup (TS-1000 Proj)
 The Data Bus (Dec 1988)
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 Electrical Transient Protection Made Easy (Hardware Proj)
 MC Pointers



SURVIVALIST NOTES

Each month, we will try to include schematics for various pieces of Timex and Sinclair equipment. This month, we are providing a schematic of a TS-2050 Modem.

If you have have some schematics that you would like to share with your fellow Timexers, send them to:

Editor, Nite-Times News
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(January 1989)

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